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SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

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=> s kulbe, ?/au 962 KULBE, ?/AU

=> s l1 and cofactor

38 L1 AND COFACTOR

=> dup rem 12 PROCESSING COMPLETED FOR L2 15 DUP REM L2 (23 DUPLICATES REMOVED)

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ANSWER 1 OF 15 SCISEARC
                                COPYRIGHT 2003 ISI (R) DUPLICATE 1
L3
AN
     2001:182142 SCISEARCH
GA
     The Genuine Article (R) Number: 402XU
TI
     Continuous enzymatic regeneration of redox mediators used in
     biotransformation reactions employing flavoproteins
     Baminger U; Ludwig R; Galhaup C; Leitner C; Kulbe K D; Haltrich
AU
     D (Reprint)
CS
     Agr Univ Vienna, Inst Food Technol, Div Biochem Engn, Muthgasse 18, A-1190
     Vienna, Austria (Reprint); Agr Univ Vienna, Inst Food Technol, Div Biochem
     Engn, A-1190 Vienna, Austria
CYA
     Austria
     JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, (22 JAN 2001) Vol. 11, No.
SO
     4-6, Sp. iss. SI, pp. 541-550.
     Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,
     NETHERLANDS.
     ISSN: 1381-1177.
DT
     Article; Journal
     English
LA
REC
     Reference Count: 30
     *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
L3
     ANSWER 2 OF 15
                        MEDLINE
                                                         DUPLICATE 2
                    MEDLINE
AN
     1998149716
     98149716 PubMed ID: 9490072
DN
     A multistep process is responsible for product-induced inactivation of
ΤI
     glucose-fructose oxidoreductase from Zymomonas mobilis.
ΑU
     Furlinger M; Haltrich D; Kulbe K D; Nidetzky B
     Division of Biochemical Engineering, Institute of Food Technology,
CS
     Universitat fur Bodenkultur Wien (BOKU), Vienna, Austria.
     EUROPEAN JOURNAL OF BIOCHEMISTRY, (1998 Feb 1) 251 (3) 955-63.
SO
     Journal code: 0107600. ISSN: 0014-2956.
CY
     GERMANY: Germany, Federal Republic of
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     English
FS
     Priority Journals
     199803
EΜ
     Entered STN: 19980407
ED
     Last Updated on STN: 19980407
     Entered Medline: 19980323
                                                         DUPLICATE 3
     ANSWER 3 OF 15
                        MEDLINE
L3
AN
     97439719
                 MEDLINE
DN
     97439719
              PubMed ID: 9307027
ΤI
     alpha-1,4-D-glucan phosphorylase of gram-positive Corynebacterium
     callunae: isolation, biochemical properties and molecular shape of the
     enzyme from solution X-ray scattering.
     Weinhausel A; Griessler R; Krebs A; Zipper P; Haltrich D; Kulbe K
AU
     D; Nidetzky B
CS
     Division of Biochemical Engineering, Institute of Food Technology,
     Universitat fur Bodenkultur (BOKU), Muthgasse 18, A-1190 Vienna, Austria.
     BIOCHEMICAL JOURNAL, (1997 Sep 15) 326 ( Pt 3) 773-83.
SO
     Journal code: 2984726R. ISSN: 0264-6021.
CY
     ENGLAND: United Kingdom
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     English
     Priority Journals
FS
EM
     199710
ED
     Entered STN: 19971024
     Last Updated on STN: 19980206
     Entered Medline: 19971016
L3
     ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2003 ACS
AN
     1996:48612 HCAPLUS
DN
     124:110966
TI
     Carry out coenzyme conversions economically
ΑU
     Nidetzky, Bernd; Haltrich, Dietmar; Kulbe, Klaus D.
CS
     Inst. Food Technology, Univ. Agriculture, Vienna, Austria
SO
     CHEMTECH (1996), 26(1), 31-6
```

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CODEN: CHTEDD; ISSN: 00
                                703
PB
     American Chemical Societ
DT
     Journal
LA
     English
      ANSWER 5 OF 15 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
L3
AN
      1992-09449 BIOTECHDS
ΤI
      Cofactor regeneration in continuous enzymatic synthesis;
         coenzyme regeneration in charged ultrafiltration membrane enzyme
         reactor (conference paper)
AU
      Kulbe K D
      Fraunhofer-Institut fuer Grenzflaechen- und Bioverfahrenstechnik,
LO
      Nobelstrasse 12, D-W 7000 Stuttgart 80, Germany.
      Biochem. Eng. Stuttgart; (1991) 18-25
SO
      Journal
DT
LA
      English
     ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2003 ACS
L3
AN
     1992:104336 HCAPLUS
DN
     116:104336
     Cofactor regeneration in continuous enzymic synthesis
TI
ΑU
     Kulbe, K. D.
     Fraunhofer-Inst. Grenzflaechen- Bioverfahrenstech., Stuttgart, D-W
CS
     7000/80, Germany
     Biochem. Eng. -- Stuttgart, [Proc. Int. Symp.], 2nd (1991), Meeting Date
SO
     1990, 18-25. Editor(s): Reuss, Matthias. Publisher: Fischer, Stuttgart,
     Fed. Rep. Ger.
     CODEN: 57KIAI
     Conference; General Review
DT
     English
LA
      ANSWER 7 OF 15 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
L3
AN
      1990-08991 BIOTECHDS
ΤI
      Continuous coenzyme dependent stereoselective synthesis of sulcatol by
      alcohol-dehydrogenase;
         from Thermoanaerobium brockii; stereospecific pheromone production;
         NADP coenzyme regeneration; potential large-scale hydrophobic fine
         chemical production
ΑU
      Roethig T R; Kulbe K D; Bueckmann F; Carrea G
      Fraunhofer-Institut fuer Grenzflaechen- und Bioverfahrenstechnik,
LO
      Nobelstrasse 12, D-7000 Stuttgart 80, Germany.
      Biotechnol.Lett.; (1990) 12, 5, 353-56
SO
      CODEN: BILED3
DТ
      Journal
      English
LA
      ANSWER 8 OF 15 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
L3
      1992-00939 BIOTECHDS
AN
      Simultaneous synthesis of sorbitol and gluconic acid by
TI
      glucose-fructose-oxidoreductase;
         and gluconolactonase; purification from Zymomonas mobilis (conference
         paper)
      Hauq I; Heinzler A; Kulbe K D
ΑU
      Fraunhofer-Institut fuer Grenzflaechen- und Bioverfahrenstechnik,
LO
      Nobelstrasse 12, D-7000 Stuttgart-80, Germany.
SO
      DECHEMA Biotechnol.Conf.; (1990) 4, Pt.A, 289-92
DT
      Journal
      English
LA
L3
     ANSWER 9 OF 15 SCISEARCH COPYRIGHT 2003 ISI (R) DUPLICATE 5
AN
     91:96438 SCISEARCH
GA
     The Genuine Article (R) Number: EX282
ΤI
     A CONTINUOUS ENZYME MEMBRANE REACTOR RETAINING THE NATIVE NICOTINAMIDE
     COFACTOR NAD (H)
     HOWALDT M W (Reprint); KULBE K D; CHMIEL H
ΑU
     CALTECH, DEPT CHEM ENGN, PASADENA, CA, 91125; FRAUNHOFER INST GRENZFLACHEN
CS
     & BIOVERFAHRENSTECH, W-7000 STUTTGART, GERMANY
```

ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1990) Vol. 589, No. MAY, pp.

CYA

SO

USA; GERMANY

253-260.

DT Article; Journal

LA ENGLISH

REC Reference Count: 10

L3 ANSWER 10 OF 15 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI

AN 1992-01080 BIOTECHDS

TI Modelling of kinetics of alcohol-dehydrogenase from Thermoanaerobium brockii with continuous cofactor regeneration;

NADPH coenzyme regeneration by the coupled substrate approach;

S-sulcatol pheromone production (conference paper)

Roethig T R; Schmidt K; Chmiel H; Kulbe K D

Fraunhofer-Institut fuer Grenzflaechen- und Bioverfahrenstechnik,

Nobelstr. 12, D-7000 Stuttgart 80, Germany.

SO DECHEMA Biotechnol.Conf.; (1990) 4, Pt.A, 155-158

DT Journal

ΑU

LO

L3

ΑB

LA English

=> d 4-6 ab

L3 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AB A method for coenzyme retention in continuous NAD(P)H-dependent synthesis is presented. A charged nanofiltration membrane that has a well-defined size exclusion slightly higher than the mol. mass of the cofactor is used to keep the coenzyme in the reactor, allowing efficient regeneration. In addn., because the membrane has acidic functional groups and NADH and NADPH are amphoteric mols. carrying a neg. net charge at pH values higher than 3, the electrostatic repulsion can be exploited for coenzyme retention. In an ideal situation, both the enzymes and the coenzymes are retained completely with the products and nonreacted substrates permeating freely. The technol. is demonstrated for prodn. of xylitol and mannitol.

ANSWER 5 OF 15 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI Some results of studies on continuous cofactor (coenzyme) regeneration were presented. The enzymatic synthesis of mannitol (or sorbitol) and gluconic acid from glucose-fructose mixtures was studied in a 70 ml charged ultrafiltration membrane enzyme reactor (ChUFER). At this scale, rejection coefficients for NADH of over 99% and cycle numbers of over 150,000 were achieved. The latter figure may reach over 500,000 by increasing enzyme concentrations. NADP(H) retention coefficients of over 99.9% were measured; coenzyme costs were therefore no longer an economical problem. This approach was applicable to the synthesis of sorbitol, xylitol, maltitol and some aromatic alcohols by using unspecific NAD(P)H-dependent aldose-reductase (EC-1.1.1.21) enzymes from Candida sp. The ChUFER concept was also suitable in some NADP-dependent steroid transformations. The ChUFER works well even in the presence of organic solvents. The ChUFER concept of coenzyme regeneration allows the use of all enzymes with their native coenzymes; there are no problems with immobilization yields and neither a decrease of Vmax nor an increase of Km can occur. (30 ref)

L3 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AB A review with 30 refs., mainly of the author's work on NADP-dependent carbohydrate transformations.

=> d 9 ab

L3 ANSWER 9 OF 15 SCISEARCH COPYRIGHT 2003 ISI (R) DUPLICATE 5

=> d 11-15

L3 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 1991:447678 HCAPLUS

DN 115:47678

TI Modeling of kinetics of alcohol dehydrogenase from Thermoanaerobium

```
brockii with continuous factor regeneration Roethig, T. R.; Schmidt, K.; Chmiel, H.; Kulbe, K. D.
AU.
CS
     Fraunhofer-Inst. Grenzflaechen- Bioverfahrenstech., Stuttgart, D-7000/80,
     Germany
     DECHEMA Biotechnology Conferences (1990), 4 (Pt. A, Lect. DECHEMA Annu.
SO.
     Meet. Biotechnol., 8th, 1990), 155-8
     CODEN: DBCOEU; ISSN: 0934-3792
DT
     Journal
LA
     English
      ANSWER 12 OF 15 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
1.3
AN
      1991-03231 BIOTECHDS
      Charged membrane enzyme reactors for continuous regeneration of native
ΤI
      coenzymes. II. Synthesis of hydrophobic compounds with NADP(H) dependent
      dehydrogenases;
         S-sulcatol production by alcohol-dehydrogenase; 12-keto-cheno-
         deoxycholic acid production by 12-alpha-hydroxysteroid-dehydrogenase;
         NADPH coenzyme regeneration (conference paper)
      Roethig T R; Schmidt K; Chmiel H; Hasenfratz H; Kulbe K D
ΑU
      Fraunhofer-Institut fuer Grenzflaechen- und Bioverfahrenstechnik,
LO
      Nobelstrasse 12, D-7000 Stuttgart 80, Germany.
SO
      DECHEMA Biotechnol.Conf.; (1989) 3, Pt.B, 643-47
DT
      Journal
LA
      English
     ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2003 ACS
L3
     1989:422086 HCAPLUS
AN
DN
     111:22086
     Simultaneous conversion of glucose/fructose mixtures in a membrane reactor
TΤ
     Howaldt, Michael; Gottlob, Axel; Kulbe, Klaus D.; Chmiel, Horst
ΑU
     Fraunhofer Inst. Grenzflaechen- und Bioverfahrenstech., Stuttgart, D-7000,
CS
     Fed. Rep. Ger.
SO
     Annals of the New York Academy of Sciences (1988), 542 (Enzyme Eng. 9),
     CODEN: ANYAA9; ISSN: 0077-8923
DT
     Journal
     English
LA
      ANSWER 14 OF 15 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
L3
      1989-05574 BIOTECHDS
AN
      Optimization of reactor performance for coenzyme dependent enzyme
ΤI
      reactions: computer simulation and experiments;
         coenzyme regeneration for glucose-dehydrogenase and
         mannitol-dehydrogenase in continuous stirred tank reactor and plug
         flow reactor (conference abstract)
ΑU
      Howaldt M W; Chmiel H; Kulbe K D
      Fraunhofer-Institut fuer Grenzflaechen - und Bioverfahrenstechnik,
LO
      Nobelstrasse 12, 7000 Stuttgart 80, Germany.
      Eur.Congr.Biotechnol.; (1987) Vol.1, 257
SO
DT
      Journal
      English
LA
     ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2003 ACS
L3
AN
     1987:137030 HCAPLUS
DN
     106:137030
     Intrasequential cofactor regeneration in enzymatic synthesis,
TI
     particularly when producing vitamin C
IN
     Kulbe, Klaus D.; Knopki, Gisela
     Fraunhofer-Gesellschaft zur Foerderung der Angewandten Forschung e.V.,
PA
     Fed. Rep. Ger.
SO
     PCT Int. Appl., 48 pp.
     CODEN: PIXXD2
DT
     Patent
     German
LA
FAN.CNT 1
     PATENT NO.
                    KIND DATE
                                          APPLICATION NO. DATE
     ----- ----
                                           -----
PΙ
     WO 8604353
                      A1 19860731
                                          WO 1986-EP24
                                                           19860122
         W: JP, US
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RW: AT, BE, CH, DE,
                                GB, IT, LU, NL, SE
     DE 3502141
                       A1
                            1,561016
                                           DE 1985-3502141
     DE 3502141
                       C2
                            19910829
     EP 209583
                      A1
                            19870128
                                           EP 1986-901053
                                                            19860122
         R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
     JP 62501747
                     T2
                            19870716
                                          JP 1986-500910
                                                            19860122
PRAI DE 1985-3502141
                            19850123
     WO 1986-EP24
                            19860122
=> s chufer
             2 CHUFER
=> d1,2
D1,2 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
=> d 1,2
      ANSWER 1 OF 2 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
L4
AN
      1994-09980 BIOTECHDS
      Continuous synthesis of xylitol by NAD(P)H-linked aldose-reductase in a
TI
      charged ultrafiltration membrane-enzyme reactor;
         xylitol production from xylose using Candida tenuis enzyme, with
         coenzyme regeneration using e.g. Candida boidinii formate-
         dehydrogenase (conference paper)
ΑU
      Kulbe K D; Schmidt H; Schmidt K; Scholze H A
      Univ. Vienna-Agr.; Fraunhofer-Inst.
CS
      Division of Biochemical Engineering, Institute of Food Technology,
      Universitaet fuer Bodenkultur Wien, Peter Jordan-Strasse 82, A-1190 Wien,
SO
      Prog.Biotechnol.; (1992) 7, 565-72
      CODEN: PBITE3
DT
      Journal
      English
LA
L4
      ANSWER 2 OF 2 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
      1992-09449 BIOTECHDS
ΑN
      Cofactor regeneration in continuous enzymatic synthesis;
TΤ
         coenzyme regeneration in charged ultrafiltration membrane enzyme
         reactor (conference paper)
ΑU
      Kulbe K D
      Fraunhofer-Institut fuer Grenzflaechen- und Bioverfahrenstechnik,
LO
      Nobelstrasse 12, D-W 7000 Stuttgart 80, Germany.
      Biochem. Eng. Stuttgart; (1991) 18-25
SO
DT
      Journal
      English
LA
=> d 1, 2 ab
      ANSWER 1 OF 2 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
      A continuous process for the enzymatic production of xylitol from xylose
      was reported to be under development. The NAD(P)H-linked
      aldose-reductase (ALR, EC-1.1.1.21) from Candida tenuis CBS 4435 was
      purified to a specific activity of 32 U/mg by salt precipitation and
      chromatography on phenyl-Sepharose, Q-Sepharose and Mono-Q. The enzyme
      was purified 25-fold and was obtained in 15% yield. The enzyme showed
      optimal activity at pH 6.5-7.0 and 50 deg. The half-life was 22 days at
      23 deq. The mol.wt. was 41,000 (gel filtration) and the pI was 4.70. Km
      values were 227-228 mM for xylose, 0.021-0.0236 for NADPH and 0.060-0.078
      mM for NADH. For coenzyme regeneration, formate-dehydrogenase
```

(EC-1.2.1.2) from Candida boidinii could be used. A charge ultrafiltration membrane-enzyme reactor (ChUFER) was developed

that allowed the retention and continuous regeneration of free NAD(P)H. For simultaneous production of glucuronic acid and mannitol, more than 150,000 coenzyme regeneration cycles were possible. Xylitol was produced

L4ANSWER 2 OF 2 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI Some results of studies on continuous cofactor (coenzyme) regeneration AB_ were presented. The enzymatic synthesis of mannitol (or sorbitol) and qluconic acid from qlucose-fructose mixtures was studied in a 70 ml charged ultrafiltration membrane enzyme reactor (ChUFER). At this scale, rejection coefficients for NADH of over 99% and cycle numbers of over 150,000 were achieved. The latter figure may reach over 500,000 by increasing enzyme concentrations. NADP(H) retention coefficients of over 99.9% were measured; coenzyme costs were therefore no longer an economical problem. This approach was applicable to the synthesis of sorbitol, xylitol, maltitol and some aromatic alcohols by using unspecific NAD(P)H-dependent aldose-reductase (EC-1.1.1.21) enzymes from Candida sp. The Chufer concept was also suitable in some NADP-dependent steroid transformations. The ChUFER works well even in the presence of organic solvents. The Chufer concept of coenzyme regeneration allows the use of all enzymes with their native coenzymes; there are no problems with immobilization yields and neither a

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FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 14:46:33 ON 22 JAN 2003

decrease of Vmax nor an increase of Km can occur. (30 ref)

L1 962 S KULBE, ?/AU

38 S L1 AND COFACTOR

L3 15 DUP REM L2 (23 DUPLICATES REMOVED)

2 S CHUFER

=> log h

L2

T.4

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	58.27	58.48
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	ENTRY	SESSION
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